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REQUEST

For receiving Office use only	
International Application No.	
International Filing Date	
•	
Name of receiving Office and "PCT International Application"	

•	International Filing Da	te	1
The undersigned requests that the present			
international application be processed			
according to the Patent Cooperation Treaty.	Name of receiving Offi	ce and "PCT Inter	national Application"
	Applicant's or agent's (if desired) (12 characte	file reference ers maximum) B06	62.70057
Box No. I TITLE OF INVENTION TUMOR SUPPRESSOR LKB1 KINASE DIRECTLY ACTIVA	TES AMB ACTIVATE	DIVINACE	
TOMOR GOLL REGION END KINAGE BIREGIET ACTIVA	TES AIMF-ACTIVATE	D KINASE	
Box No. II APPLICANT			
Name and address: (Family name followed by given name; for a legal ent The address must include postal code and name of country. The country of t Box is the applicant's State (that is, country) of residence if no State of residen	he address indicated in this	Telephone No.	
4	•	Facsimile No.	
BETH ISRAEL DEACONESS MEDICAL CENTER, INC.			
330 Brookline Avenue		Teleprinter No.	
Boston, Massachusetts 02215		A = 1: 2 :	: N:1.1.005
United States of America		Applicant stegis	tration No. with the Office
State (that is, country) of nationality:	State (that is, country)	of residence:	
US			US
This person is applicant for the purposes of: all designated states all designated the United S		the United States of America only	the States indicated in the Supplemental Box
Box No. III FURTHER APPLICANT(S) AND/OR (FURT	HER) INVENTOR(S)		
Name and address: (Family name followed by given name; for a legal ent	ity, full official designation.	This person is:	
The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)			at only
			· · · · · · · · · · · · · · · · · · ·
DANA-FARBER CANCER INSTITUTE, INC.		at and inventor	
44 Binney Street	marked,	only (If this check-box is do not fill in below.)	
Boston, Massachusetts 02115	÷	Applicant's regis	tration No. with the Office
United States of America		*F	
State (that is, country) of nationality: State (that is, country)		of residence:	
US			US
This person is applicant for the purposes of: all designated the United States all designated the United States		the United States of America only	the States indicated in the Supplemental Box
X Further applicants and/or (further) inventors are indicated of	on a continuation sheet.		
Box No. IV AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE			
The person identified below is hereby/has been appointed to act of the applicant(s) before the competent International Authorities	as:	agent	common representative
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.) Telephone No. 617-646-8000			3000
VAN AMSTERDAM, John R.	Facsimile No.		
Wolf, Greenfield & Sacks, P.C	617-646-8	3646	
600 Atlantic Avenue	Teleprinter No.		
Boston, Massachusetts 02210			
United States of America	Agent's registration No. with the Office 40,212		
Address for correspondence: Mark this check-box where space above is used instead to indicate a special address to	no agent or common rep which correspondence sl	resentative is/has	· ·

Continuation of Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)		
If none of the following sub-boxes is used, this sheet should not be included in the req	• *	
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)	This person is: applicant only	
	applicant and inventor	
CANTLEY, Lewis C. 43 Larch Road	inventor only (If this check-box is marked, do not fill in below.)	
Cambridge, Massachusetts 02138	Applicant's registration No. with the Office	
United States of America		
tate (that is, country) of nationality: US State (that is, country) of residence: US		
This person is applicant all designated all designated States except the United States of America	the United States of America only the States indicated in the Supplemental Box	
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) SHAW, Reuben J. c/o Beth Israel Deaconess Medical Center, Inc. 330 Brookline Avenue, RN-325 Boston, Massachusetts 02215 United States of America	This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office	
State (that is, country) of nationality: State (that is, country)		
State (that is, country) of nationality: US State (that is, country)	Of residence:	
This person is applicant for the purposes of: all designated States except the United States of America	the United States of America only the States indicated in the Supplemental Box	
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) BARDEESY, Nabeel c/o Dana-Farber Cancer Institute, Inc. 44 Binney Street	This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.)	
Boston, Massachusetts 02115	Applicant's registration No. with the Office	
United States of America		
State (that is, country) of nationality: State (that is, country)	of residence:	
This person is applicant for the purposes of: all designated States except the United States of America	the United States of America only the States indicated in the Supplemental Box	
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) DEPINHO, Ronald A. 565 Boylston Street Brookline, Massachusetts 02445	This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office	
United States of America		
State (that is, country) of nationality: US State (that is, country) of residence: US		
This person is applicant for the purposes of: all designated all designated States except the United States of America	the United States of America only the States indicated in the Supplemental Box	
Further applicants and/or (further) inventors are indicated on another continuation sheet.		

Box No. V DESIGNATI	Box No. V DESIGNATIONS			
The filing of this request constitutes under Rule 4.9(a), the designation of all Contracting States bound by the PCT on the international filing date, for the grant of every kind of protection available and, where applicable, for the grant of both regional and national patents.				e PCT on the international ional and national patents.
However,				
l —	signated for any kind of natio			
KR Republic of Korea	is not designated for any kin	d of national protection		
RU Russian Federation	n is not designated for any ki	nd of national protection		·
ine nanonai iaw, oj an eartier	be used to exclude (irrevocabl r national application from wh in these and certain other Sto	uch priority is claimed S	ned in order to avoid the ee the Notes to Box No. V	ceasing of the effect, under as to the consequences of
Box No. VI PRIORITY	CLAIM			
The priority of the following	earlier application(s) is hereb	y claimed:		
Filing date	Number	V	Vhere earlier application	is:
of earlier application (day/month/year)	of earlier application	national application: country or Member of WTO	regional application:* regional Office	international application: receiving Office
item (1)				
9 September 2003 (09.09.2003)	60/501,513	US		
item (2)				·
26 September 2003 (26.09.2003)	60/506,705	US		•
item (3)				
Further priority claims a	re indicated in the Supplemen	atal Box.		
The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) (only if the earlier application was filed with the Office which for the purposes of this international application is the receiving Office) identified				
all items W item (1) W : (0)				e Supplemental Box
* Where the earlier applicatio Industrial Property or one Me	n is an ARIPO application, in	dicate at least one country	monte to the Decision	
•••••••		•••••••		
Box No. VII INTERNATI	ONAL SEARCHING AUT	HORITY		
Choice of International Sear international search, indicate i	rching Authority (ISA) (if tw the Authority chosen; the two-	yo or more International S letter code may be used):	earching Authorities are o	competent to carry out the
ISA / US				
Request to use results of earlier search; reference to that search (if an earlier search has been carried out by or requested from the International Searching Authority):			by or requested from the	
Date (day/month/year)	Numbe	Count	ry (or regional Office)	
Box No. VIII DECLARAT	IONS			
The following declarations are contained in Boxes Nos. VIII (i) to (v) (mark the applicable Check-boxes below and indicate in the right column the number of each type of declaration): Number of declarations				
Box No. VIII (i) Declaration as to the identity of the inventor			:	
Box No. VIII (ii) Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent				
Box No. VIII (iii) Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application				
Box No. VIII (iv) Declaration of inventorship (only for the purposes of the designation of the United States of America)				
Box No. VIII (v)	Declaration as to non-prejud	dicial disclosures or excep	otions to lack of novelty	

Box No. IX CHECK LIST; LANGUAGE OF FILING					
(a) in paper form, the following number of item(s) (mark the applicable check-boxes below and indicate in of it			Numb of ite	~ 1	
sheets: right column the number of each item):					
request (including declaration sheets)	4		riginal separate power of attorney	:	
description (excluding		1 =	riginal general power of attorney		
sequence listing and/or tables related thereto)	60		opy of general power of attorney; reference number,	•	
claims	8	if	any:	:	
abstract	1	1	atement explaining lack of signature	:	
drawings Sub-total number of sheets	10	6. □ pr	riority document(s) identified in Box No. VI as em(s):	······ : ·	
sequence listing	2	7. 🔲 tri	anslation of international application into anguage):		
tables related thereto (for both, actual number of	. 0	8. □ se	eparate indications concerning deposited microorgan r other biological material		
sheets if filed in paper form, whether or not also filed in	,	9. 🗷 se	equence listing in computer readable form andicate type and number of carriers)	•	
computer readable form; see (c) below)		· -	copy submitted for the purposes of international se	arch under	
Total number of sheets	85	(ii) 🗀	Rule 13ter only (and not as part of the international only where check-box (b)(i) or (c)(i) is marked in left	column)	
(b) only in computer readah (Section 801(a)(i))	ole form	,	additional copies including, where applicable, the opurposes of international search under Rule 13ter	:	
(i) sequence listing (ii) tables related thereto		(iii) 🗷	I together with relevant statement as to the identity o copies with the sequence listing mentioned in left c	f the copy or olumn :	
(c) also in computer readab (Section 801(a)(ii))	le form	(i.	bles in computer readable form related to sequence li ndicate type and number of carriers)	_	
(i) ☐ sequence listing (ii) ☐ tables related thereto		(i) [copy submitted for the purposes of international se Section 802(b-quater) only (and not as part of the i application)	arch under nternational	
Type and number of carriers (diskette, CD-ROM, CD-R or other) on which are contained the (ii) (only where check-box (b) (ii) or (c) (ii) is marked in left column) additional copies including, where applicable, the copy for the purposes of international search under Section 802(b-quater)					
sequence listing: (iii) together with relevant statement as to the identity of the copy or					
tables related thereto: copies with the tables mentioned in left column :					
(additional copies to be indicated under items 9(ii) and/or 10(ii), in right column) 11. T other (specify): postcard, transmittal letter : :					
Figure of the drawings which should accompany the abstract: Hanguage of filing of the international application: ENGLISH					
Box No. X SIGNATURE O	F APPLICAN' ne of the person sign	T, AGENT (OR COMMON REPRESENTATIVE Appacity in which the person signs (if such capacity is not obvious	from reading the reque	est)
Next to each signature, indicate the name of the person signing and the capacity in which the person signs (if such capacity is not obvious from reading the request).				-31y.	
Jhn L. Van Cuntols					
1	mr.	vu			
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VAN AMSTERDAM, John (5.					
For receiving Office use only					
1. Date of actual receipt of the purported international application: 2. Drawings:			·		
international application:			received:	. [
3. Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application:					
			not receive	d:	
5. International Searching Authority 6. Transmittal of search copy delayed until search fee is paid			ż		
For International Bureau use only					
Date of receipt of the record copy by the International Bureau:					
t					

This sheet is not part of and does not count as a sheet of the international application.

PCT	For receiving Office was active
п С п	For receiving Office use only
FEE CALCULATION SHEET	International Application No.
Annex to the Request	
Applicant's or agent's file reference B0662.70057	Date stamp of the receiving Office
Applicant	
BETH ISRAEL DEACONESS MEDICAL CENTER, INC. ET AL.	
CALCULATION OF PRESCRIBED FEES	\$300.00 T
1. TRANSMITTAL FEE	
SEARCH FEE International search to be carried out by	\$1000.00 S
(If two or more International Searching Authorities are competer international search, indicate the name of the Authority which is the international search.)	
3. INTERNATIONAL FILING FEE	
Where items (b) and/or (c) of Box No. IX apply, enter Sub-total now Where items (b) and (c) of Box No. IX do not apply, enter Total now	
il first 30 sheets	\$1134.00 [i]
i2 x \$12.00 =	\$660.00 12
in excess of 30	
additional component (only if sequence listing and/or tables thereto are filed in computer readable form under Section 80 or both in that form and on paper, under Section 801(a)(ii)):	01(a)(i), ·
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fee per sheet Add amounts entered at i1, i2 and i3 and enter total at I	\$1794.00 I
(Applicants from certain States are entitled to a reduction of international filing fee. Where the applicant is (or all applicated) entitled, the total to be entered at I is 25% of the international file.	nts are) so
4. FEE FOR PRIORITY DOCUMENT (if applicable)	\$40.00 P
5. TOTAL FEES PAYABLE	\$3134,00 TOTAL
MODE OF PAYMENT	
authorization to charge postal money order	cash coupons
cheque bank draft	revenue stamps other (specify):
AUTHORIZATION TO CHARGE (OR CREDIT) DEPOSIT ACC (This mode of payment may not be available at all receiving Offices)	Receiving Office: RO/
Authorization to observe the total food in director above	Deposit Account No.: 23/2825
Authorization to charge the total fees indicated above. (This check-box may be marked only if the conditions for deposit acc	ounts Date: SEPTEMBEL 9, 2004
of the receiving Office so permit) Authorization to charge any defice or credit any overpayment in the total fees indicated above.	

Form PCT/RO/101 (Annex) (January 2004)

Authorization to charge the fee for priority document.

See Notes to the fee calculation sheet